Montana Board of Oil and Gas Conservation Environmental Assessment

| Operator: Kykuit Resources, LLC |
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| Well Name/Number: Knox #5B-21-20 |
| Location: SE SE Section 5 T21N R20E |
| County: Fergus, MT; Field (or Wildcat) Wildcat |
| |
| Air Quality |
| (possible concerns) |
| Long drilling time: No, 2 to 3 days drilling time. |
| Unusually deep drilling (high horsepower rig): No, small single derrick drilling rig, TD 2200'. |
| Possible H2S gas production: None anticipated. |
| In/near Class I air quality area: Not in a Class I air quality area. |
| Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under |
| 75-2-211. |
| |
| Mitigation: |
| X Air quality permit (AQB review) |
| Gas plants/pipelines available for sour gas |
| Special equipment/procedures requirements |
| Other: |
| Comments:No, small single drilling rig TD 2200'. No concerns. |
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| Water Quality |
| The state of the s |
| (possible concerns) |
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(possible concerns)

| Steam crossings: No, streams to be crossed. |
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| High erosion potential: No, moderate cut up to 19.7' and small fill up to 7.8', required. |
| Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If |
| productive unused portion of drillsite will be reclaimed. |
| Unusually large wellsite: No, small drillsite, 200'X200'. |
| Damage to improvements: None, surface use is grasslands. |
| Conflict with existing land use/values: Slight_ |
| Mitigation |
| Avoid improvements (topographic tolerance) |
| Exception location requested |
| X Stockpile topsoil |
| Stream Crossing Permit (other agency review) |
| X Reclaim unused part of wellsite if productive |
| Special construction methods to enhance reclamation |
| Other |
| Comments: Will utilize existing county, 2 Calf Road and D-Y Trail. Short access off |
| existing D-Y Trail to be build, about ¼ of a mile of new access will be built into this location. |
| Unlined earthen pits will be utilized for drilling. Drilling fluids will used to seal surface owners |
| stock pond. Solids will be allowed to dry in the pits. When pits are dry they will be filled in |
| with subsoil and topsoil spread. |
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| Health Hazards/Noise |
| |
| (possible concerns) |
| Proximity to public facilities/residences: <u>Closest residences are about 1.25 miles to the east The</u> |
| town of Winifred, about 10 miles to the southwest of this location. |
| Possibility of H2S: No, none anticipated. |
| Size of rig/length of drilling time: Small single derrick drilling rig/Short drilling time 2 to 3 days |
| Mitigation: |
| X Proper BOP equipment |
| Topographic sound barriers |
| H2S contingency and/or evacuation plan |
| Special equipment/procedures requirements |
| Other: |
| Comments: Adequate amount of surface casing and BOP equipment should mitigate |
| any problems. |
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| Wildlife/recreation |
| (possible concerns) |
| Proximity to sensitive wildlife areas (DFWP identified): None identified. |
| Proximity to recreation sites: None identified. |
| Creation of new access to wildlife habitat: None |
| Conflict with game range/refuge management: None |
| Threatened or endangered Species: Threatened or endangered species identified are the Pallid |
| Sturgeon and Black-Footed Ferret. Species of concern is the Greater Sage Grouse. |
| Mitigation: |
| Avoidance (topographic tolerance/exception) |
| Other agency review (DFWP, federal agencies, DSL) |
| Screening/fencing of pits, drillsite |

| X Other: Based upon e-mail information from Windy Davis closest leck is about 5/8 of |
|--|
| a mile from this location. |
| Comments: Private surface lands. Location is at a minimum legal setback off the |
| section line and off an existing county road that runs along the section line. Surface owner |
| controls access into and out of this location. Drilling and completion activity will be short |
| term. |
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| Historical/Culture/Dalagutalagical |
| Historical/Cultural/Paleontological (possible concerns) |
| Proximity to known sites None identified |
| Mitigation |
| avoidance (topographic tolerance, location exception) |
| other agency review (SHPO, DSL, federal agencies) |
| Other: |
| Comments: Surface land is private. No concerns. |
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| Social/Economic |
| (possible concerns) |
| Substantial effect on tax base |
| Create demand for new governmental services |
| Population increase or relocation |
| Comments: No, impact expected from the drilling of this well. |
| Remarks or Special Concerns for this site |
| No special concerns about this wellsite. This is a Colorado Formation test to be drilled to 2200' |
| TD |
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| Common Fredrick on of Longotta and Common time officers |
| Summary: Evaluation of Impacts and Cumulative effects |
| No significant or long term impacts expected from the drilling of this well. Some short term |
| impacts will occur. |
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| I am all de shot the amount of the ambient Nation of Intent to Duill (deco/deep met) and that a |
| I conclude that the approval of the subject Notice of Intent to Drill (does/ <u>does not</u>) constitute a major action of state government significantly affecting the quality of the human environment, |
| and (does/ <u>does not</u>) require the preparation of an environmental impact statement. |
| and (does) does not) require the preparation of an environmental impact statement. |
| Prepared by (BOGC): /s/ Steven Sasaki |
| (title:) Chief Field Inspector |
| Date: May 26, 2010 |
| |
| Other Persons Contacted: |

| Montana Bureau of Mines and Geology, GWIC website |
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| (Name and Agency) |
| Fergus County water wells |
| (subject discussed) |
| May 21, 2010 |
| (date) |
| |
| US Fish and Wildlife, Region 6 website |
| (Name and Agency) |
| ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA |
| COUNTIES, Fergus County |
| (subject discussed) |
| _May 21, 2010 |
| (date) |
| |
| Ms. Windy Davis, Montana FWP |
| (Name and Agency) |
| Greater Sage Grouse Lecks in Fergus County, Montana |
| (subject discussed) |
| _May 21, 2010 |
| (date) |
| TC1 |
| If location was inspected before permit approval: |
| Inspection date: |
| Inspector: |
| Others present during inspection: |